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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-08-31** **Date: 25-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Ananthpura in ward no. 03, Attur
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer Reference	:	EE(YNK.D)E-PMT-02/W.O/117/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-04-08-31** **Date: 26-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Ananthpura in ward no. 03, Attur
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/117/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-02-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-08-31** **Date: 26-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Ananthpura in ward no. 03, Attur
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/117/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-08-31** **Date: 12/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Ananthpura in ward no. 03, Attur
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/117/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-19
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	05/03/2019	12/03/2019	151.47 X 150.26 X 150.75	22760	8.276	411.4	18.1	18.5
2	M20 Concrete	M20	05/03/2019	12/03/2019	150.81 X 151.59 X 150.77	22862	8.698	431.6	18.9	
3	M20 Concrete	M20	05/03/2019	12/03/2019	149.04 X 151.32 X 150.04	22553	8.480	421.6	18.7	

Note:
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Authorized Signatory
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2019-04-08-31
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Ananthpura in ward no. 03, Attur
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/117/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1.Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-02-19

Date: 01-03-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	201	198	15879	32.759	2063.0	2050.7	Not less than 1800Kg/m^3
2	405	198	199	15958	32.677	2047.7		
3	399	203	203	16442	33.564	2041.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-04-08-31 **Date: 25-02-19**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Ananthpura in ward no. 03, Attur

Agency : Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/117/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 22-02-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-04-08-31** **Date: 04-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Ananthpura in ward no. 03, Attur
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/117/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	02-02-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	514	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	673	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	546	667	20.0%	Satisfactory	Satisfactory

Note:

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